# Power Cost Memorandum Fuel Cost Update

Date: November 4, 2021 Utility Name (Cert. No.) Utility File No. Date Filed: Naterkag Light Plant (365) PC10-0617N October 21, 2021 PCE AMOUNT Previously Staff Recommended Amount(s) **SUMMARY** Approved and Effective Date PC10-0617M PC10-0617N Date Approved: Class Rate July 2, 2021 November 5, 2021 Residential \$0.2325 \$0.2503 Community \$0.2325 \$0.2503 Interim Permanent ☐ Interim ☐ Permanent Prior Fuel Purchase Price: \$3.0007 New Fuel Purchase Price: \$ 3.2239 ✓ Weighted Actual Actual Weighted Surcharge Change: Previous Delivery Charge: \_\_\_\_\_ Updated Weighted Average Fuel Price/Gal. Calculation Gallons Price On-hand before deliv 16,578 Χ 3.0007 49.746 Delivered 45,856 Χ 3.3045 151,531 62.434 201,277 Weighted Average 3.2239 Brenda Cox Signed: **Utility Financial Analyst** Brenda Cox Commission decision re. this recommendation : I WILL WRITE Date (if different I DO NOT A DISSENTING from 11/4/21) **CONCUR** CONCUR STATEMENT \* **Pickett** Kurber Scott Sullivan RM P for DS TWW Wilson

Special Instructions to Staff:

<sup>\*</sup> If this column is initialed, Staff will contact the Commissioner for the statement, otherwise, dissent will simply be noted at the close of the By Direction Letter or Order.

### **NATERKAQ LIGHT PLANT**

POWER COST EQUALIZATION CALCULATION FOR THE PERIOD ENDING MARCH 31, 2017 **Fuel Cost Update** 

	_	PC10-0617M	PC10-0617N			
		Prior				
		Staff	Utility	Staff		
		Calculated	Request	Recommendation		
A.	Total KWH Generated	1,551,776	1,551,776	1,551,776		
B.	Total KWH Sold (Appendix 2)	1,380,135	1,380,135	1,380,135		
C.	Total Non-Fuel Costs (Appendix 2)	\$266,121	\$266,121	\$266,121		
D.	Non-Fuel Cost/KWH (C / B)	\$0.1928	\$0.1928	\$0.1928		
E.	Total Fuel Costs (Appendix 2)	348,120	374,014	374,014		
F.	Fuel Costs/KWH (E / B)	\$0.2522	\$0.2710	\$0.2710		
G.	Eligible Costs/KWH (D + F)	\$0.4450	\$0.4638	\$0.4638		
H.	Eligible Cost/KWH Less \$0.2003/kWh	\$0.2447	\$0.2635	\$0.2635		
l.	Lesser of (h) or \$0.7997/kWh	\$0.2447	\$0.2635	\$0.2635		
J.	Average Class Rates (Appendix 3)					
	Residential	\$0.3497	\$0.3497	\$0.3497		
	Community	\$0.3497	\$0.3497	\$0.3497		
	-	Class Power Cost Equalization				
17	1 (1) 0.50( (1)	Per kWh Payable				
K.	Lesser of: (I) x 95%, or (J)					
	Residential	\$0.2325	\$0.2503	\$0.2503		
	Community	\$0.2325	\$0.2503	\$0.2503		
L.	Funding Level in Effect	100%	100%	100%		
	Residential	\$0.2325	\$0.2503	\$0.2503		
	Community	\$0.2325 \$0.2325	\$0.2503 \$0.2503	\$0.2503 \$0.2503		
		Ψ0.2020	<b>\$0.200</b>	Ψ0.2000		

SCHEDULE OF ELIGIBLE POWER COSTS, SALES AND EFFICIENCY FOR THE PERIOD ENDING MARCH 31, 2017 Fuel Cost Update

		PC10-0617M	PC10-0617N			
		Prior				
		Staff	Utility	Per		
		Calculated	Request	Staff		
Non-Fuel Costs:						
A.	Personnel Expenses	137,879	137,879	137,879		
B.	Operating Expenses	34,291	34,291	34,291		
C.	General and Administrative	39,133	39,133	39,133		
D.	Depreciation Expense	53,122	53,122	53,122		
E.	Interest Expense	1,696	1,696	1,696		
F.	Total Non-Fuel Costs	\$266,121	\$266,121	\$266,121		
Fuel Costs:						
G.	Gallons Consumed for					
О.	Electric Generation	116,013	116,013	116,013		
Н.	Price of Fuel: (per gallon)	of Fuel: (per gallon) 3.0007 3.22		\$3.2239		
	Weighted Average					
I.	Total Cost of Fuel (GXH)	\$348,120	\$374,014	\$374,014		
J.	kWh Generated	1,551,776	1,551,776	1,551,776		
K.	kWh Sold	1,380,135	1,380,135	1,380,135		
L.	kWh Station Service	40,064	40,064	40,064		
M.	Efficiency (J/G) Standar > 12.5	<u>rd</u> 13.38	13.38	13.38		
N.	Line Loss ≤ 12%	8.48%	8.48%	8.48%		
	(kWh Generated - (kWh Sold + kWh Station Service))/kWh Generated					

## **NATERKAQ LIGHT PLANT**

#### Calculation of Average Class Rate per kWh

Rate Schedule: Residential

(1)	(2)	(3)	(4)	(5)	(6)	(7)
kWh		Surcharge	Total	Total	Avg.	Avg. Rate
by	Rate	If Applicable	(\$/kWh)	\$	(\$/kWh)	(\$/kWh) -
Block	(\$/kWh)	(\$/kWh)	(2+3)	(1x4)	(5)/(1)	0.2003
500	0.5500	0.0000	0.5500	275.00	0.5500	0.3497
	·					
E00				075 00	0.5500	0 0 407

500 275.00 0.5500 0.3497 TOTAL (A) (E)

#### **Computation of Community Facilities Average Rate**

Rate Schedule: Community

Nate Schedule. Community							
	(A)	(B)	(C)	(7)			
		Surcharge	Total Rate	Avg. Rate			
	Rate	If Applicable	(\$/kWh)	(\$/kWh) -			
	(\$/kWh)	(\$/kWh)	(A+B)	0.2003			
0 to ∞	0.5500	0.0000	0.5500	0.3497			
0 to ∞ Next to	0.5500	0.0000	0.5500	0.3497			
	0.5500	0.0000	0.5500	0.3497			
Next to	0.5500	0.0000	0.5500	0.3497			

#### **Naterqak Light Plant**

				Delivery/	
	Delivery		Cost per	Mark-Up	
	Date	Gallons	Gallon		Total Cost
Beginning Fuel Inventory		16,578			
Last Approved Fuel Cost/Gal.			\$ 3.0007		
Beginning Fuel Inventory in Gallons X	Last Approv	ed Fuel Cost/Gal.	= Beginning Fu	el Inventory Co	\$ 49,746
Reporting Period Purchases	09/30/21		3.3045		47,843
	09/29/21	31,378	3.3045		103,689
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-
Totals for Reporting Period					
Purchases on this sheet:		45,856			151,532
Grand Totals (beginning inventory plus	purchases)	62,434	•	В	\$ 201,278

Grand Total Cost divided by Grand Total Gallons = 3.2239 Weighted Avg. Cost per gallon Purchases: Total Cost divided by Grand Total Gallons = 3.3045 Weighted Avg. Cost per gallon

Signature: Owbet M Putet

Email: bob.pickett@alaska.gov

Signature: Keith Kurber //
Keith Kurber II (Nov 4, 2021 08:09 AKDT)

Email: keith.kurber@alaska.gov

Signature:

Email: antony.scott@alaska.gov

Signature: Janis W. Wilson

Janis W. Wilson (Nov 4, 2021 14:28 AKDT)

Email: janis.wilson@alaska.gov